

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,136,230 B2
APPLICATION NO. : 10/050881
DATED : November 14, 2006
INVENTOR(S) : Yuji Miyauchi et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14, line 23, change " $\omega_w = 0.012\text{mm}$ " to -- $\phi_w = 0.012\text{mm}$ --;

Column 14, line 25, change " $\omega_w/PX \sqrt{(3.5/N)} = 2.947$ " to -- $\phi_w/PX \sqrt{(3.5/N)} = 2.947$ --;

Column 14, line 27, change " $\omega_w/P = 4$ " to -- $\phi_w/P = 4$ --;

Column 14, line 66, change "... gin each example" to --... in each example--;

Column 15, line 23, change " $r_1 = 8.670$ " to -- $r_1 = 78.670$ --;

Column 19, line 18, change " $-15 \leq \omega_{w0} < 10^\circ$ " to -- $-15^\circ \leq \omega_{w0} < 10^\circ$ --;

Column 19, line 47, change "claim 2," to --claim 1,--;

Column 19, line 56, change "claim 2," to --claim 1,--;

Column 20, line 11, change "claim 2," to --claim 1,--;

Column 20, line 16, change "claim2," to --claim 1,--;

Column 20, line 21, change " $/P < 8.0$ " to -- $/P \leq 8.0$ --;

Column 20, line 33, change "claim 1," to --claim 2,-- ;

Column 20, line 42, change "claim 1," to --claim 2,-- ;

Column 20, line 63, change "claim 1," to --claim 2,--;

Column 21, line 1, change "claim 1," to --claim 2,-- and

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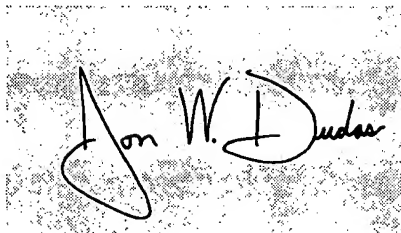
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 22, line 37, change " $1.05 < \phi_w/pX \sqrt{(3.5/N)} < 8.0$ " to $--1.05 < \phi_w/PX \sqrt{(3.5/N)} < 8.0--$.

Signed and Sealed this

Eighth Day of May, 2007

A handwritten signature in black ink, reading "Jon W. Dudas", is written over a rectangular area with a light gray, textured background.

JON W. DUDAS
Director of the United States Patent and Trademark Office